```
=> e vesuvin/cn
                            VESUVIANITE, MANGANOAN (AL4((AL0-1FE0-1)6(MN0.8-2FE0-1.2MG0-1.2))CA19FE(0H)10(SI207)4(SI04)10)/CN
E1
                            VESUVIANITE, TITANIAN (AL4 ((AL0-1FE0-1) 4-5.2 (FE0-1MG0-1) 2TI0 . 8-2) CA19FE (OH) 2 ( (OH) 6-7. 200. 8-2) (SI207) 4 (SI04) 10) /CN
E2
                   1
                   0 --> VESUVIN/CN
Е3
                             VESUVINE BA/CN
E4
                   1
                             VESUVINE BP/CN
E5
                   1
E6
                             VESYCA/CN
                   1
E7
                             VESZELYITE/CN
                            VESZPREMITE/CN
VESZPREMITE (AL6F80(SI04)2)/CN
E8
E9
                             VET/CN
E10
                            VET (EXTRACT)/CN
VET 1/CN
E11
E12
                   1
\Rightarrow s e4-e5
                   1 "VESUVINE BA"/CN
1 "VESUVINE BP"/CN
2 ("VESUVINE BA"/CN OR "VESUVINE BP"/CN)
L1
```

 $\Rightarrow$  d 1-2 ide can

ANSWER 2 OF 2 REGISTRY COPYRIGHT 2008 ACS on STN
RN 6368-82-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,3-Benzenediamine, 4,4'-[(2-methyl-3,1-phenylene)bis(azo)]bis[2-methyl-0THER CA! INDEX NAMES)
OTHER CA! INDEX NAMES
CN Toluene-2,6-diamine, 3,3'-[(2-methyl-m-phenylene)bis(azo)]bis- (SCI)
OTHER NAMES
CN C. 1, 21020
CN C. 1, 21020
CN Toluylene Brown
CN Vesuvine BF
C21 124 N8
LC STN Files: CA, CAPLUS, CHEMLIST
Other Sources: EINECS\*\*
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 109:83362

=>

Uploading C:\Program Files\Stnexp\Queries\10534057.str

chain nodes:

19 20 21 22 23 2425 31

ring nodes:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

chain bonds:

2-25 3-28 5-27 6-19 8-20 12-21 14-22 15-30 17-29 18-23 19-20 21-22 23-24 24-31 25-26 26-32 31-33 32-34

ring bonds:

 $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 7-8 \quad 7-12 \quad 8-9 \quad 9-10 \quad 10-11 \quad 11-12 \quad 13-14 \quad 13-18 \quad 14-15 \quad 15-16 \quad 16-17 \quad 13-14 \quad 13-18 \quad 13-18 \quad 13-18 \quad 14-15 \quad 15-16 \quad 16-17 \quad 13-18 \quad 13-18$ 17 - 18

exact/norm bonds:

 $2-25 \quad 3-28 \quad 5-27 \quad 6-19 \quad 8-20 \quad 12-21 \quad 14-22 \quad 15-30 \quad 17-29 \quad 18-23$ 19-20 21-22 23-24

exact bonds:

24-31 26-32 31-33 32-34

normalized bonds:

 $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 7-8 \quad 7-12 \quad 8-9 \quad 9-10 \quad 10-11 \quad 11-12 \quad 13-14 \quad 13-18 \quad 14-15 \quad 15-16 \quad 16-17 \quad 13-14 \quad 13-18 \quad 13-18$ 17 - 18

isolated ring systems:

containing 1: 7: 13:

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:Atom 32:Atom 33:CLASS 34:CLASS

## L2 STRUCTURE UPLOADED

=> d

L2 HAS NO ANSWERS

STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation.

 $\Rightarrow$   $\Rightarrow$  d his

(FILE 'HOME' ENTERED AT 14:50:50 ON 15 MAR 2008)

FILE 'REGISTRY' ENTERED AT 14:51:02 ON 15 MAR 2008 E VESUVIN/CN

2 S E4-E5 L1

L2 STRUCTURE UPLOADED

L3 1 S L2

15 S L2 FULL L4

FILE 'CAPLUS' ENTERED AT 14:53:51 ON 15 MAR 2008

L5 20 S L4

=> d que 15 stat L2

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation. L4  $\,$  15 SEA FILE=REGISTRY SSS FUL L2  $\,$ 

20 SEA FILE=CAPLUS ABB=ON PLU=ON L4 L5

=> d 1-20 ibib iabs hitstr

L5 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570
147:11570

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE | Mailton | No. | Mailton | Mate | Mappellication | No. | Mate |

ASSTRACT:
The invention relates to aqueous liquid formulations containing 5-30% of a dye composition that comprises 25-85% of Direct brown 44, 15-75% of Direct yellow 11 and/or a dye obtained by reducing or thermally treating direct yellow 11, 0-15% of ≥1 Direct blue dyes, and 0-10% of ≥1 direct red dyes, 0.5-15% of ≥1 alkylamines, the one, two, or three alkyl groups of which can be substituted by one or two hydroxyl groups and/or amino groups and/or be interrupted by one or two oxygen atoms having an ether function, the Na concentration of the liquid formulation not exceeding 0.3%.

6252-62-6, Direct brown 44
RL: TEM (Technical or engineered material use); USES (Uses)
(liquid direct dye formulations for dyeing cellulose materials, especially, paper)
6252-62-6 CAPLUS
Benzenesuffonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediy1(4,6-diamino-3,1-phenylene)-2,1-diazenediy1]]bis-, sodium salt (1:2) (CA INDEX NAME)

●2 Na

CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:
DOCUMENT NUMBER:
146:290387

AUTHOR (S):

AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

SOURCE:

DOCUMENT TIPE:

AUTHOR SOURCE:

DOCUMENT TYPE:

AUTHOR SOURCE:

DOCUMENT TYPE:

DOCUMENT TYPE: Agrochemistry
Journal
LANGUAGE: Agrochemistry
Journal
Biglish
ASSTRACT:
Azoreductases have been characterized as enzymes that can decolorize azo dyes
by reducing azo groups. In this study, genes encoding proteins having homol.
with the azoreductase gene of Bacillus sp. 071-2 were obtained from Bacillus
subtilis ATOCGGS3, B. subtilis ISW1214, and Geobacillus stearotherophilus
IFV013737 by polymerase chain reaction. All three genes encoded proteins with
174 amino acids. The deduced amino acid sequences of azoreductase homologs
from B. subtilis ISW1214, B. subtilis ATOCGGS3, and G. stearotherophilus
IFV013737 showed similarity of 53.3, 55.9, and 53.3% resp. to that of Bacillus
sp. 071-2. All three genes were expressed in Escherichia coli, and were
characterized as having the decolorizing activity of azo dyes in a B-NADPH
dependent manner. The transformation of several azo dyes into colorless
compds. by recombinant enzymes was demonstrated to have distinct substrate
specificity from that of azoreductase from Bacillus sp. 071-2.

6252-62-6. Direct brown 44
RL: BSU (Biological study, unclassified): RCT (Reactant): BIOL (Biological study): RACT (Reactant or reagent)
(reaction with azoreductase: expression and characterization of genes encoding azoreductases from Bacillus subtilis and Geobacillus stearothermophilus)
6252-62-6 CAPLUS
Benzenesulfonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediyl[4,6-diamino-3,1-phenylene)-2,1-diazenediyl]bis-, sodium salt (1:2) (CA INDEX NAME)

PAGE 1-B

L5 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-B

L5 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN

32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L5 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
REFORD, ALL CITETIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
144:275706
144:275706
144:275706
144:275706
144:275706
144:275706
144:275706
144:275706
144:275706
144:275706
144:275706
144:275706
144:275706
144:275706
144:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
145:275706
14

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. 

6252-62-6, Direct brown 44
RE: TEM (Technical or engineered material use); USES (Uses)
(liquid formulations of direct dyes)
6252-62-6 CAPLUS
Benzenesuffonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediyl](4,6-diamino-3,1-phenylene)-2,1-diazenediyl]]bis-, sodium salt (1:2) (CA INDEX NAME)

■2 Na

PAGE 1-B

 ${\tt INVENTOR}\,({\tt S}):$ 

L5 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:1262726 CAPLUS DOCUMENT NUMBER: 144:8092 Hethod for producing a liquid

Method for producing a liquid formulation of salts of sulphonic-acid aso dyes Schroeder, Courter-Muolf; Decker, Juergen; Reichelt, Helmott Klopp, Ingo; Diefenbacher, Armin; Voss, BASF Aktiengesellschaft, Germany PCT Int. Appl., 24 pp. CODEN: PIXXD2 Patent

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: German

PA'	TENT	NO.			KIN	D					ICAT				D.	ATE	
WO	2005	1136	81		A1		2005	1201		WO 2	005-	RP53	92		2	0050	518
	₩:	AE, CN,	AG, CO,	AL, CR,	AM, CU,	AT, CZ,	AU, DE,	AZ, DK,	BA, DM,	BB, DZ,	BG, EC,	BR, EE,	BW, EG,	BY, ES,	BZ, FI,	CA, GB,	CH, GD,
		GE, LC,	GH, LK,	GM, LR,	HR, LS,	HU, LT,	ID, LU,	IL, LV,			MG,		KG, MN,	KM, MW,	KP, MX,		KZ, NA,
		NG.	NI.	NO.	NZ.	OM.	PG.	PH.	PL,	PT.		RU.	SC.			SG.	
		SL,	SM,	SY,				TR,									
	mm.	ZA,	ZM,	ZW	1170					om	or	0.0	mn	710		om	
	RW:		GH,	GM,	KE, KZ,	LS,							TZ,		ZM,	ZW,	AM,
		AZ, EE,	BY, ES,	KG, FI,	FR.	MD, GB,				AT,	BE, IT,	BG,	CH, LU,	CY, MC,	CZ,	DE,	DK, PT,
		RO,	SE,	SI,				BJ,					GA,			GW,	
					TD,												
	1020							1208									
EP	1756							0228								0050	
	K;							DE, NL,								HU,	IE,
CN	1957							0502								0050	518
MY	2006	PA12	950		۸		2007	0212		MY 2	006-	PA12	950		2	0061	
US	2007	2327	95		A1		2007	1004		US 2	006-	5692	63		2	0061	
IN	2006	CN04	672		A		2007	0629		IN 2	006-	CN46	72		2	0061	219
PRIORIT											004-					0040	519
										WO 2	005 -	RP53	92		W 2	0050	518

PRIORITY APPIN. INFO:

BE 2004-102004025443A 20040519

ABSTRACT:

The invention relates to a method for producing a liquid formulation of salts of sulfonic-acid axo dyes by the coupling of at least an equimolar quantity of diazotized EMRAYSOMS with products of the self-coupling products of phenylenediamine, which can be optionally substituted by Me. In said formula, Ar represents phenylene, which can be monosubstituted by sulfo, or naphtlylene, which can be monosubstituted by sulfo, or naphtlylene, which can be monosubstituted by sulfo, or nonsubstituted by hydroxy. According to the method, the axo dve is prepared as a basic solution without isolation of the dve, and then the solution is subjected to a nanofiltration to give a storage-stable solution Thus, coupling of mphenylenediamine (I) with diazotized I in water, adjusting the pH to 3 with NaOH. coupling of diazotized sulfanilic acid with the intermediate in suspension, adjusting the pH to 5 with NaOH, and adjusting the pH to 9.5 with squeeus NRS, clarifying the solution by filtration (filtration residue (0.1%) gave a dye solution, and refiltering the solution through a nanofiltering membrane with the separation layer being TiO2, pore size being 0.9 mm, and flow rate being 20.7 kg/m2 h, and concentrating the filtrate by a concentration factor of 2.13 gave a C.I. Direct Brown 44 dye solution containing 97.% solids.

IT 6252-62-6P, C.I. Direct Brown 44

RL: IMF (Industrial manufacture); PREP (Preparation)
(producing solns, of salts of sulfonic-acid azo dyes with nanofiltration for purification)
RN 6252-62-6 CAPLUS

ANSWER 4 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) Benzenesulfonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediy1'(4,6-diamino-3,1-phenyleneb'-2,1-diazenediy1][bis-, sodium salt (1:2) (CA INDEX NAME)

●2 Na

PAGE 1-B

REFERENCE COUNT: THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:
2004:467962 CAPLUS
TITLE:
Wethod for producing aqueous solutions of azo dye
sulfonic acid salts
INVENTOR (S):
Schmitt, Michael; Reichelt, Helmut
BASF Aktiengesellschaft, Germany
FOT Int. Appl., 17 pp.
CODEN: PIXXD2
DOCUMENT TYPE:
LANGUAGE:
PARMILY ACC. NUM. COUNT:
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	ENT				KIN	)	DATE			APPL	ICAT	ION	NO.		D	ATE		
WO	2004	0484	78		A1		2004	0610		WO 2	003-	EP12	803		2	0031	117	
	₩:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	GE,	
		GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	
		OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	
	THE .	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZΨ	417	4.77	
	RW:	BW, BY,	GH, KG.	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,		
		ES.	FI.	KZ, FR,	MD, GB,	RU, GR,	TJ, HU.	TM, IE,	AT,	BE,	BG,	CH,	CY, PT,	CZ, RO,	DE, SE,	DK, SI,	EE,	
		TR.	BF.	BJ.	CF.	CG,	CI.	CM,	GA.	GN.	GQ.	GW,	ML,	MR.	NE.	SN,	TD,	TG
AII	2003			DJ,	A1			0618			3003-			mire,		0031		10
EP	1567		1 2		A1			0831			2003-					0031		
EP	1567				BI		2006			Lu Z	,000		11		-	0001		
	R:	AT,	BE.	CH.	DE.	DK,	ES.	FR.	GB.	GR.	IT.	LI.	LU.	NL.	SE.	MC.	PT.	
		IE.	SI.	LT.	LV.	FI.			CY.	AL	TR.	BG.	CZ.	EE.	HU.	SK	,	
CN	1717	454			A		2006	0104		CN 2	003-	8010	4446		2	0031	117	
JP	2006		09		T			0309		JP 2	004-	5543	58		2	0031	117	
	3453				T			1215			2003-					0031		
	2276				Т3			0616			003-					0031		
	2006				A1		2006	0309			2005-					0050		
ORITY	/ APP	LN.	INF0	. :							002-					0021		
										WO 2	3003-	BP12	803		₩ 2	0031	117	

PRIORITY APPIN. INFO::

WO 2003-BF12803 W 20031117

OTHER SOURCE(S): MARPAT 141:25073

ASSTRACT:

Aqueous solution of C. I. Direct Brown 44, useful for dyeing of paper, was manufactured by (a) preparing vesuvine from m-phenylenediamine, (b) coupling the vesuvine without isolation with at least an equimolar quantity of diazotized aminoaryl sulfonic acid HENMATOSH [Are : sulfo) benepiere (OH and/or sulfo-substituted)

nabhthylenel, and (c) isolation of the dwe in acidic form and subsequent dissoln in aqueous base. For example, the diazo component solution was prepared by dissolving 170 g sulfamilic acid in solution of 157 parts 25% aqueous NaOH in 1300 parts HEO, adding 1300 parts ice and 335 parts of 23% aqueous NaOH solution, adding 447 parts of 20% HCl and destroying the excess nitrite with sulfamic acid. The diazo component was added to the coupling component solution containing 173 parts vesuvine base in 2500 parts ice/HEO mixture, the pH was adjusted to 5.0-6 (aqueous NaOH), after the coupling reaction was completed the pH value was lowered to pH 1 with HCl and the resulting solid was separated by filtration and dried to give 360 g C. I. Direct Brown 44 containing 1.5% NaCl. Dissolving 20 g of the wet filter cake of the above dye and 6 parts 1, 2-propanediol in 72 parts diluted aqueous NaOH (pH 10-12) and clarification gave a dye solution useful for coloration of paper.

6252-62-6P, Benzenesulfonic acid, 4,4'-[1,3-phenylenebis[azo(4,6-diamino-3,1-phenylene)azo]]bis-, disodium salt RL: IMF (Industrial manufacture); TEM (Technical or engineered material

L5 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) ANSWER 5 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) use); PREP (Preparation); USES (Uses) (aq. soln.; method for producing aq. solns. of azo dye sulfonic acid salts) 625-62-6 CAPLUS

6252-62-6 CAPLUS Benzenesulfonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediy1(4,6-diamino-3,1-phenylene)-2,1-diazenediy1]]bis-, sodium salt (1:2) (CA INDEX NAME)

PAGE 1-B

25180-42-1P, C.I. Direct Brown 44
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); IDSE (Uses)
(method for producing aqueous solns. of azo dye sulfonic acid salts)
25180-42-1 CAPLUS
Benzenesulfonic acid, 4.4'-[1,3-phenylenebis[azo(4,6-diamino-3,1-phenylene)azo]]bis- (9CI) (CA INDEX NAME)

PAGE 1-B

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L5 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2008:525872 CAPLUS DOCUMENT NUMBER: 139:92805
TITLE: Light-sensitive lithographic.p. 139:92806
Light-sensitive lithographic printing plate precursor containing specific visible light-absorbing dye Serikawa, Takeshi Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 37 pp. CODEN: JKXXAF Patent Japanese

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2003195490
PRIORITY APPLN. INFO.:
ABSTRACT: A 20030709

ABSTRACT: The title printing plate precursor has a light-sensitive layer, which contains a light-to-heat converting compound, a water-insol. alkali-solubilizable resin, and a visible light-absorbing dve having a acidic group, on a support, wherein the dve maintains the acidic group after development process. The printing plate precursor provides printing plate of high contrast between image parts and background for easy inspection of the printing plate and shows the good development characteristics.

IT

6417-95-4
RL: TBM (Technical or engineered material use); USES (Uses)
(visible light-absorbing dye)
6417-95-4 CAPLUS
1-Naphthalenesulfonic acid, 4,4'-[1,3-phenylenebis[azo(4,6-diamino-3,1-phenylene]azo]]bis-, disodium salt (9CI) (CA INDEX NAME)

L5 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:886055 CAPLUS
DOCUMENT NUMBER: 137:371581
INTENT (Coloring paper with mixtures of dyes
Coloring paper with mixtures of dyes
Coloring paper with mixtures of dyes
(Franken, Paul: Roick, Thomas; Landsgesel, Udo: Wild, Peter: Hundertmark, Claudia: Kunde, Klaus
Bayer AG, Germany
Bur. Pat. Abol., 9 pp.
CODEN: EPXXDW
Patent
FAMILY ACC. NUM. COUNT: 1
German

FAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	ENT	NO.			KIN	-	DATE			APPL	ICAT	ION :	NO.			ATE	
EP EP	1258 1258				A2 A3		2002			EP 2	002-	9340			2	0020	503
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,

20010709 A 20010516 A 20010709

ABSTRACT:

In the title process, which avoids the use of C.I. Basic Brown 1, mixts. of anionic dyes with absorption maximum 390-470 mm and those with absorption maximum 560-660 rm are used. Mixing pulp from 1000 kg recycled paper with 1.2 kg C.I. Direct Brown 44 and 0.4 kg C.I. Direct Blue 199 as concentrated aqueous solns. of Na salts gave a light brown paper with good resistance to bleeding and light.

25180-42-1, C.I. Direct Brown 44
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(coloring paper with mixts. of dyes)
25180-42-1 (APLUS
Benzenesulfonic acid, 4,4"-[1,3-phenylenebis[azo(4,6-diamino-3,1-phenylene)azo]]bis- (9CI) (CA INDEX NAME)

PAGE 1-B

L5 ANSWER 9 0F 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1997:616919 CAPLUS
DOCUMENT NUMBER: 127:312936
TITLE: High-extinction polarizers cor High-extinction polarizers comprising liquid crystal High-extinction polarizers comprising liquid crysta.
bolymers
Mortazavi, Mohammad; Yoon, Hyun Nam; Teng, Chia-chi
Hoechst Celanese Corp., USA
U.S., 8 pp.
CODEN: USXXAM
Patent
English
English

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 5667719 JP 11506547 PRIORITY APPLN. INFO.: US 1995-459581 JP 1996-536525 US 1995-459581 WO 1996-US7274 19950602 19960520 19950602 19970916 19990608 19960520

ABSTRACT:
This invention provides high-extinction organic polarizers based on blends of novel liquid crystalline polymers and suitable dichroic dyes. The invention further provides a process to prepare such polarizers.

6252-62-6, Direct Brown 44
RL: TEM (Technical or engineered material use); USES (Uses)
(high-extinction polarizers containing liquid crystal polymers and)
6252-62-6 CAPLUS
Benzenesulfonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediyl(4,6-diamino-3,1-phenylene)-2,1-diazenediyl]jbis-, sodium salt (1:2) (CA INDEX NAME)

PAGE 1-A

●2 Na

PAGE 1-B

L5 ANSWER 8 OF 20 ACCESSION NUMBER: 2002:204287 CAPLUS COPYRIGHT 2008 ACS on STN 2002:204287 CAPLUS TITLE: 137:141714 Influence of light exposure on the UV protection of direct, reactive, acid, and disperse dyes on cotton and mylon fabrics and mylon fabrics (NORPORATE SOURCE: Veatch, Kelly D.: Gatewood, Barbara M. SCHARCE: SOURCE: ACID (NORPORATE SOURCE: ACID (NOR

DUBLISHER: American Association of Textile Chemists and Colorists DOCOMENT TYPE: Journal LANGUAGE: American Association of Textile Chemists and Colorists Docoment Type: Journal Language.

The UV protection provided by fabrics can be enhanced appreciably by use of certain dyes that absorb in the UV region. This study examined the relationships among dye fading, UV transmission, and UPF values for 82 dyes on nylon and cotton. The results of this study will assist in selecting dyes that have the greatest potential for increasing UV protection and least susceptible to change during light exposure.

IT 6252-62-6, C.I. Direct Brown 44 RL: PRP (Properties); TBM (Technical or engineered material use); USES (Uses)

(Uses)
(brown dye; effect of light exposure on UV protection of direct dyes on fabrics)
6252-62-6 CAPLUS
Benzenesulfonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediy1(4,6-diamino-3,1-phenylene)-2,1-diazenediy1]]bis-, sodium salt (1:2) (CA INDEX NAME)

●2 Na

PAGE 1-B

REFERENCE COUNT: THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 0F 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:
107:41689 CAPLUS
107:41689
Concentrated aqueous dye soluti
Taniguchi, Koichi; Inoue, Kanam
Japan Chemical Industry Co., Lt
Jpn. Kokai Tokkyo Koho, 4 pp. 107:41689 CAPLUS
Concentrated aqueous dye solution compositions
Taniguchi, Koichi; Inoue, Kaname
Japan Chemical Industry Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAP
Patent
Japanese
1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61296069 TP 07000748	A B	19861226 19950111	JP 1985-136871	19850625
PRIORITY APPLN. INFO.:	-		JP 1985-136871	19850625

ABSTRACT: The title compns. comprise brown dyes I [R = Li, NH2 (CH2CH2OH) 2, NH (CH2CH2OH) 3; n = 1, 2] and water soluble polyalkylene glycols, and are useful in manufacture of paper and leather. Thus, Na naphthionate was diacotized, the diazonium sat treated with C.I. Basic Brown I, H2O, polyethylene glycol, and urea at 00°, then Had pusted to 8 by (HOCHZOH2)NA, and then H2O was added at 30°. This solution (A) was storage-stable for 6 mo. A pulp solution was mixed with A, a size, and anhydrous Al2(SO4)3, and was used to prepare uniformly brown paper.

IT 109059-74-7F 109081-98-5P
RL: PREP (Preparation)
(brown, manufacture of, for cellulose pulp and leather, aqueous storage-stable compns. containing)
RN 109059-74-7 CAPLUS
(N 1, 5-Naphthalenedisulfonic acid, 3, 3'-[1, 3-phenylenebis[azo(4, 6-diamino-3, 1-phenylene) azo]]bis-, tetralithium salt (9CI) (CA INDEX NAME)

L5 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

●4 Li

PAGE 1-B

109081-98-3 CAPLUS 1,5-Naphthalenedisulfonic acid, 3,3'-[1,3-phenylenebis[azo(4,6-diamino-3,1-phenylene)azo]]bis-, compd. with 2,2'-iminobis[ethano1] (1:4) (9CI) (CA INDEX NAME)

CM 1

CRN 109081-97-2 CMF C38 H30 N12 012 S4

PAGE 1-B

CM 2

L5 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1986:573251 CAPLUS
DOCUMENT NUMBER: 1986:573251 CAPLUS
111:172621
1171E: 1986:573251 CAPLUS
1171E: 1986:573251 CAPLUS
1171E: 1986:772621
1096:772621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
1096:172621
109

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61051001 TP 02036602	A B	19860313 19900820	JP 1984-171045	19840817
US 4758639 PRIORITY APPLN. INFO.:	A	19880719	US 1987-94020 JP 1984-171045 JP 1984-171046 US 1985-765803	19870903 19840817 19840817 119850815

ABSTRACT:
The title method in the suspension or emulsion polymerization of vinyl monomer(s) comprises (A) reducing surface roughness of the reactor wall to (5 Hm and 6) coating the reactor and auxiliary equipment of monomer contact, with dye and/or pigment. Thus, a polymerization reactor (surface roughness 0.4-0.7 Hm) coated with Solvent Black 5 exhibited no scale deposit even after 150 batches of polymerization of vinyl chloride, while a control (surface roughness 0.2-0.3 µm), without such a coating, was all covered with thick scale deposit after 10 batches.

IT

6252-62-6
RL: DEV (Device component use); USES (Uses)
(coatings containing, on polymerization reactors, for prevention of scale during vinyl polymerization in aqueous media)
6252-62-6 CAPLUS
BenzenesuIfonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediyl(4,6-diamino-3,1-phenylene)-2,1-diazenediyl]]bis-, sodium salt (1:2) (CA INDEX NAME)

PAGE 1-B

L5 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN CRN 111-42-2 CMF C4 H11 N O2

 ${\tt H0-CH_2-CH_2-NH-CH_2-CH_2-OH}$ 

L5 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L5 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1983:476924 CAPLUS
99:76924
ORIGINAL REFERENCE NO. 99:1181Sa, 11816a
Colored shaped articles such as contact lenses
SUMVENTOR(S): Suminoe, Taro: Ito, Tetsuo; Kiyomatsu, Yasuhiro;
Shimizu, Takao
Japan Synthetic Rubber Co., Ltd., Japan: Ricky
Contact Lens Research Institute, Inc.
CODEN: EPXXDW
DOCUMENT TYPE:
LANGUAGE: PAMILY ACC. NUM. COUNT: 1
English

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 82026 EP 82026 EP 82026	A2 A3 B1	19830622 19830720 19870916	EP 1982-306735	19821216
R: DE, FR, GB JP 58104286	A	19830621	JP 1981-201450	19811216
US 4494954 PRIORITY APPLN. INFO.:	Ä	19850122	US 1982-450040 JP 1981-201450 A	19821215 19811216

PRIORITY APPIN. INPO:

JP 1981-201450 A 19811216

ASSTRACT:
Uniformly colored shaped articles such as contact lenses are prepared by immersing an acrylate polymer in a dyeing solution containing a water-soluble dye in a solvent capable of swelling the polymer and drying the article. Discoloration or fading due to oozing out of the dye is prevented by uniformly penetrating or dispersing the dye into the swollen lipophilic polymers. A polymer contact lens, prepared from acrylic acid. Bu methacrylate, and ethylene glycol dimethacrylate, was immersed in PrOH and 1% MeSOSH was added and the mixture refluxed for 24 h to complete esterification and the lens then wassled with PrOH. The lens was immersed in a MeOH solution of C.I. Acid Blue 9 (C.I. 42090) [2650-18-2] for 1 h and the swollen and colored lens dried at 96° for 16 h and washed with H2O to remove surface dve. No discoloration occurred when the lens was boiled in distilled H2O for 7 days.

6252-62-6
RE: BIOL (Biological study)
(acrylic contact lenses coloring with)
6252-62-6 CAPLUS
Benzenesulfonic acid, 4,4"-[1,3-phenylenebis[2,1-diazenediyl(4,6-diamino-3,1-phenylene)-2,1-diazenediyl])bis-, sodium salt (1:2) (CA INDEX NAME)

●2 Na

L5 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1982: 474117 CAPLUS DOCUMENT NUMBER: 97:7417 ORIGINAL REFERENCE NO.: 97:12397a, 12400a

99:12397a,12400a Coloring agents for wood coatings and their properties Saijo, Hiroyuki Kanagawa-Ken Kagu Shido Cent., Kanagawa, Japan Kogyo Toso (1990), 44, 104-17 CODEN: KTOSDW; ISSN: 0286-6943 Journal Japanese

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

ABSTRACT:

ABSIMACI: Fifty-four colorants including direct, acid, and alc.—soluble dyes and various non-grain-raising stains were applied on wood veneer specimens and subjected to fadecometer test (JIS L 0842). The results were presented as color differences as well as changes in hue, chroma, lightness, and light reflectance.

RI: INSES (Uses)
(lightfastness of, on wood)
6252-62-6 (AP/LUS)
Benzenesulfonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediyl(4,6-diamino-3,1-phenylene)-2,1-diazenediyl]]bis-, sodium salt (1:2) (CA INDEX NAME)

PAGE 1-B

L5 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-B

L5 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
89:112864 CAPLUS
89:112866 CAPLUS
89:112866 CAPLUS
89:112866 CAPLUS
89:112866 CAPLUS
89:112866 ACF LUS
89:112866 ACF LUS
Water-soluble polyazo dyes
Arsac, Aine: Frank, Pierre
Produits Chimiques Ugine Kuhlmann, Fr.
Fr. Demande, 30 pp.
COODEN: FRXXEL
LANGIAGE:
Patent
French
French
French

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE FR 2349675 FR 2349675 PRIORITY APPLN. GRAPHIC IMAGE: 19771125 19790706 A2 B2 FR 1976-12892 19760430 TNFO : FR 1976-12892 A 19760430

ABSTRACT:
Polyazo dyes [I; R, R2 = benzene, naphthalene, heterocyclic radical; R1 = H, C1, alkyl; Z, Z1 = bennylene, naphthylene; m, n = 0, 1, 2; the mol. contains (in R, R1, Z, Z1) 1-4 SOSH groups and 0-2 OOCH groups] were prepared and used to dye leather. Thus, 2-(4-mainophenyl)-5-mainobenzimidazole [7621-86-5] was tetrazotized and coupled with 2-maino-5-hydroxy-7-naphthalenesulfonic acid [87-02-5] to give I (R = R2 = 2, 5, 7, 1-H2N(H0) (HOSS)C10H4, R1 = H, m = n = 0) [67400-98-0], fast violet on leather.

IT

67400-97-9
RL: USES (Uses)
(dye, for leather, preparation of)
(67400-97-9 C&PUNS
Benzoic acid, 3,3'-[1,3-phenylenebis[azo(4,6-diamino-3,1-phenylene)azo(7-sulfo-4,1-naphtha]enediyl)azo-]H-benzimidazole-5,2-diyl-4,1phenyleneazo]]bis[6-hydroxy-(9CI) (CA INDEX NAME)

L5 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 2-B CO2H

L5 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

L5 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1974:122888 CAPLUS
DOCUMENT NUMBER: 80:122888 CAPLUS
ONICIDAL REPRENCE NO: 80:19745a,19748a
IIIV.
IIIV.
IIIV.
IIIV.
IIIV.
IIIV.
IIIV.
ONIONITY ASSIGNEE(S): Sakura Color Products Corp.
Ger. Offen. 46 pp.
OUDEN: GWXXEX
DOCUMENT TYPE: Queen
DOCUMENT TYPE: German
FAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2317816	A1	19731018	DE 1973-2317816	19730409
DE 2317816	B2	19770421		
DE 2317816	C3	19771215		
JP 48101222	A	19731220	JP 1972-36282	19720410
JP 51039575	В	19761028		
US 3945836	A	19760323	US 1973-348050	19730405
GB 1430412	A	19760331	GB 1973-16552	19730406
FR 2179953	A1	19731123	FR 1973-12954	19730410
PRIORITY APPLN. INFO.:			JP 1972-36282 A	19720410
ABSTRACT:				

ABSTRACT:
Aliphatic hydrocarbon-soluble inks, useful in marking pens, are prepared by reaction of carboxylate- or sulfonate-containing dyes with quaternary ammonium or amine salts. Thus, stirring Direct Yellow 27 [51052-88-1] 7, tributyloctylammonium chloride [51052-89-2] 8, and H20 130 parts 20 min at 40-50 deg, gives a precipitate, purified by extraction into 100 parts PhMe to give 13 parts dye. A mixture of this product 6, pentaerythritol rosin ester 15, and refined gasoline 79 parts gives a lemon-yellow ink.

IT 6252-62-6D, Benzenesulfonic acid, 4.4'-[1,3-phenylenebis[azo(4,6-diamino-3,1-phenylene)azo]]bis-, disodium salt, reaction products with aumonium salts
RL: USES (Uses)
(gasoline-soluble, for marking pen inks)
RN 6252-62-6 CAPLIS
CN Benzenesulfonic acid, 4.4'-[1,3-phenylenebis[2,1-diazenediyl(4,6-diamino-3,1-phenylene)-2,1-diazenediyl]]bis-, sodium salt (1:2) (CA INDEX NAME)

●2 Na

L5 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1972:424512 CAPLUS
ORIGINAL REFERENCE NO.: 77:44959, 4062a
TITLE: Microbiological purification of dye-industry waste
water and sewage. Minimum toxic concentrations of
dyes and mordant dyes for paramecia
Kobayashi, Hiroshi
SUIRCE: Kobayashi, Hiroshi
SUIRCE: Misur Coll., Minist. Agric. For, Japan
Mizu Shori Gijutsu (1971), 12(12), 23-50
COODEN: MSYGAO; ISSN: 0026-7015

DOCUMENT TYPE:

Journal Japanese

LANSUAGE: Journal LANSUAGE: Japanese ASSTRACT: Japanese Survival rates of Paramecium were determined as a function of conons. of 10 dyes and 2 mordants. The toxic conons. were 8-500 ppm, depending on types of dyes and mordants used.

IT 6252-62-6
RL: PRP (Properties)
(toxicity of, to Paramecium)
RN 6252-62-6 (APLUS
RD Enzenesulfonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediyl(4,6-diamino-3,1-phenylene)-2,1-diazenediyl]]bis-, sodium salt (1:2) (CA INDEX NAME)

PAGE 1-B

L5 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1964:46215 CAPLUS
ON GLIGHAL REPRENCE NO. 60:8182g-t, 8183a
STABLITY OF 21 CAPLUS COPYRIGHT 2008 ACS on STN
11LE: 90:46215 CAPLUS
ON:8182g-t, 8183a
Stablity of direct dyes at temperatures above
Stablity of direct dyes at temperature above

LANGUAGE: Unavailable
ASSTRACT:
The behavior of 4S direct dyes at >100° was investigated. Modifications in the spectral characteristics (CA 57, 6009h) and results of actual dyeing of cotton fibers in neutral (0.5 and 1 h,) and in alkaline (4% Na2COS, 0.5 h.) media were determined in the presence of 10% Na2COS and 1 at normal temperature and at 120°. The heat resistance of the dyes was lower in alkaline than in neutral media. In the latter, the heat resistance of the direct dyes was remarkable, only Direct Brilliant Orange and Direct Resistant Ruby L2A being unusable. The results showed that the benzidine disazo and the stilbene dyes have remarkable heat resistance, while the dyes derived from the carbonyl J acid have a lower stability. In general, stability of the dyes was the same when heated in the absence or in the presence of cotton, but in some cases the heat resistance was improved by the cotton. The role of the secondary dyes in the final behavior of the products examined was also discussed.

IT 6252-62-6, C. I. Direct Brown 44 (heat stability of)
RN 6252-62-6 CAPLUS
CN Benzenesulfonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediyl(4,6-diamino-3,1-phenyleneb).2 (od. INDEX NAME)

PAGE 1-B

L5 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2008 ACS ON STN ACCESSION NUMBER: 1996:38396 CAPLUS DOCUMENT NUMBER: 50:38396 ORIGINAL REFERENCE NO.: 50:7465f-h

ORIGINAL REFERENCE NO.: TITLE:

DU: 1463f—h
Paper chromatography of reduction products of dyes
from benzidine and its derivatives
Kitahara, Shinya; Hiyama, Hachiro
Osaka City Ind. Research Inst.
Kogyo Kagaku Zasshi (1955), 58, 620-5
CODEN: KGKZA7; ISSN: 0368-5462
Journal AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

Journal Unavailable LANGUAGE ABSTRACT:

Cavourds: Onavaliable of the ASSTRACT:

cf. C.A. 49, 14327d. Twenty-seven kinds of benzidine dves were subjected to acid reduction with tin chloride and examined by paper chromatog, by use of FeCIS or NH40H as coloring reagent and BuOH-HCI (4:1) mixture or 2% HCl aqueous solution as developing agent. The color and Rf values of reduction products are tabulated. The names of dyes examined are: Congo red, Benzopurpurin 4B, Direct Blue 2B, Dimmine Sky Blue, Direct Violet RK, Acetopurpurine SB, Coupling Grange Extra, Pyramine Orange R, Toluylene Orange G, Fast Red F, Benzo Orange R, Direct Brown M, Direct Red G, Benzo Fast Red GI, Congo Orange R, Benzo Brown CB, Congo Corinth G, Brilliant Bordeaux NS, Direct Black BH, Dia Mineral Blue CVB, Congo Rubin, Direct Brown 3G, Direct Orange R, Direct Green, Congo Brown G, Direct Fast Black HW, Deep Black Extra.

To 6252-62-6, Direct Brown 3G (chromatog. of reduction products of)

RN 6252-62-6 CAFLUS

CN Benzenesulfonic acid, 4,4'-[1,3-phenylenebis[2,1-diazenediyl(4,6-diamino-3,1-phenylene)-2,1-diazenediyl]]bis-, sodium salt (1:2) (CA INDEX NAME)

●2 Na

PAGE 1-B

L5 ANSWER 18 OF 20 CAPLIS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1961:67667 CAPLUS
DOCUMENT NUMBER: 55:67667 CAPLUS
55:12857e-f
Innorvement of the quality of direct dyes
Legradi, Laszlo; Kovacs, Tibor
Veszprem County Dye Factory, Fuzfogyartelep, Hung.
Magyar Kemial Folyoriat (1961), 67, 1-3
CODEN: MGKFAG: ISSN: 0025-0155
JOURNAL REPRENCE OF THE COUNTY OF THE AUTHOR (S):
CORPORATE SOURCE:
SOURCE:

DOCUMENT TYPE: Journal LANSINGE: Unavailable ASSTRACT:
The structure of Dianil Brown (C. I. Direct Brown 44) was altered by using 1-chloro-2-amino-4-benzensulfonic acid (I) in the place of sulfanilic acid. I was prepared in 90% yield by sulfonating and nitrating chlorobenzene, followed by reduction Light-fastness was improved, other fastness values remained the same.

117881-07-9P, Benzenesulfonic acid, 3,8'-[m-phenylenebis[azo(4,6-diamino-m-phenylene)azo]]bis[4-chloro-RL: PREP (Preparation) (preparation of) 117881-07-9 (APLUS Benzenesulfonic acid, 3,3'-[m-phenylenebis[azo(4,6-diamino-m-phenylene)azo]]bis[4-chloro-(6CI) (CA INDEX NAME)

L5 ANSWER 20 0F 20 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1947:8579 CAPLUS
ORIGINAL REPERBICE NO. 41:3879
TITLE: 41:724e-1,725a-d
AZO COMPONATE SOURCE: 50URCE: 600 Feb. 1948
DOCUMENT TYPE: 50URCE: 600 Feb. 1948
DOCUMENT T

DOCUMENT TYPE:
LANGLINGE:
German
Germ

IT 859493-74-6P, p-Toluenesulfonic acid, 3-[2,4-diamino-5-(3-amino-5-sulfo-o-tolylazo)henylazo]-5-[2,4-diamino-5-[3-(2,4-diaminophenylazo)-5-sulfo-o-tolylazo)henylazo]-RL: PREP (Preparation)

(preparation of)

\$\$59493-74-6 (APLUS
p=Toluenesulfonic acid, 3=[2,4-diamino-5-(3-amino-5-sulfo-o-tolylazo) phenylazo] = 5[2,4-diamino-5-[3-(2,4-diaminophenylazo)-5-sulfo-o-tolylazo] benylazo] = 5(0) (CA NDEEN NAME)

L5 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-H

$\Rightarrow$ $\Rightarrow$ d que	19 stat	
L6		FLU=ON "SCHMITT MICHAEL"/AU
L7	135 SEA FILE=CAPLUS ABB=ON	PLU=ON "REICHELT HELMUT"/AU
L8	315 SEA FILE=CAPLUS ABB=ON	PLU=ON L6 OR L7
L9	1 SEA FILE=CAPLUS ABB=ON	PLU=ON L8 AND (VESUVIN? OR (BISMARK
	BROWN))	

=> d bib abs

=> log h COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 331.90 126.35 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL **ENTRY** SESSION CA SUBSCRIBER PRICE -16.80-16.80

SESSION WILL BE HELD FOR 120 MINUTES STN INTERNATIONAL SESSION SUSPENDED AT 14:58:50 ON 15 MAR 2008